

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974985

Luminaire Tested: FLR2-24-72HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-72HE-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

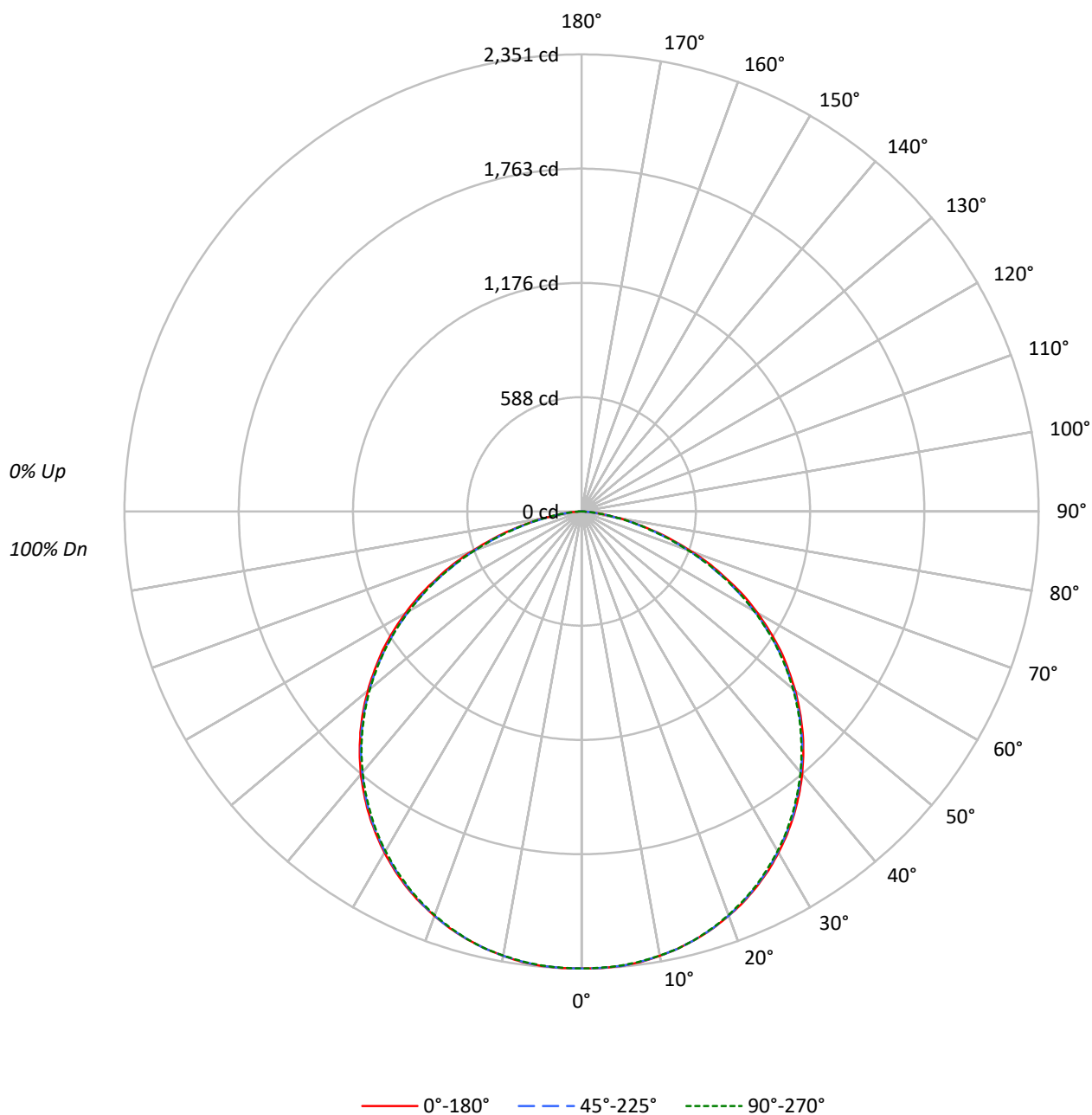
Lumens per Lamp: N/A
Luminaire Lumens: 6645.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3163	3163	3163
5°	3170	3170	3167
10°	3172	3171	3170
15°	3173	3172	3172
20°	3170	3168	3164
25°	3164	3157	3152
30°	3150	3140	3134
35°	3129	3120	3109
40°	3101	3082	3078
45°	3061	3044	3034
50°	3004	2981	2972
55°	2933	2891	2887
60°	2810	2760	2760
65°	2629	2568	2576
70°	2366	2293	2286
75°	1987	1908	1899
80°	1451	1379	1438
85°	820	755	769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	3.4
10°-20°	642.9	9.7
20°-30°	980.2	14.8
30°-40°	1187.6	17.9
40°-50°	1233.6	18.6
50°-60°	1103.6	16.6
60°-70°	804.3	12.1
70°-80°	398.3	6.0
80°-90°	71.2	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1846.3	27.8
0°-40°	3034.0	45.7
0°-60°	5371.2	80.8
0°-90°	6645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2347	2348	2347	2347	2345	223
15°	2278	2277	2277	2279	2277	643
25°	2131	2128	2127	2126	2123	982
35°	1905	1902	1900	1896	1893	1191
45°	1609	1605	1600	1596	1594	1240
55°	1250	1241	1232	1232	1231	1114
65°	826	819	806	810	809	819
75°	382	376	367	374	365	407
85°	53	49	49	50	50	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2351.1	2351.1	2351.1	2351.1	2351.1
2.5°	2351.1	2350.3	2350.3	2351.1	2349.5
5°	2346.9	2347.8	2346.9	2346.9	2345.2
7.5°	2337.6	2336.8	2336.0	2336.8	2334.3
10°	2321.6	2321.6	2320.8	2321.6	2319.9
12.5°	2302.2	2302.2	2302.2	2303.1	2302.2
15°	2277.7	2276.9	2276.9	2278.6	2276.9
17.5°	2249.1	2248.2	2248.2	2247.4	2245.7
20°	2213.6	2213.6	2212.8	2211.9	2209.4
22.5°	2175.7	2174.8	2172.3	2172.3	2168.9
25°	2131.0	2128.4	2126.7	2125.9	2123.4
27.5°	2082.0	2078.7	2076.1	2074.4	2071.9
30°	2027.2	2023.8	2021.3	2018.8	2017.1
32.5°	1968.1	1966.5	1962.2	1961.4	1958.0
35°	1904.9	1902.3	1899.8	1896.4	1893.1
37.5°	1837.4	1834.9	1828.9	1827.3	1824.7
40°	1765.7	1762.3	1754.7	1754.7	1752.2
42.5°	1688.9	1685.5	1680.5	1677.1	1675.4
45°	1608.8	1605.4	1599.5	1596.1	1594.4
47.5°	1523.6	1521.0	1514.3	1511.7	1509.2
50°	1435.0	1431.6	1424.0	1422.3	1419.8
52.5°	1342.2	1340.5	1330.4	1329.5	1327.0
55°	1250.2	1241.0	1232.5	1232.5	1230.8
57.5°	1149.0	1142.2	1131.3	1131.3	1129.6
60°	1044.4	1038.5	1025.8	1027.5	1025.8
62.5°	942.3	929.7	917.8	922.9	918.7
65°	825.9	819.1	806.5	809.9	809.0
67.5°	719.6	706.9	695.1	701.9	698.5
70°	601.5	594.7	582.9	589.7	581.2
72.5°	490.1	484.2	472.4	480.0	471.6
75°	382.2	376.3	367.0	373.7	365.3
77.5°	280.1	275.9	267.4	274.2	275.9
80°	187.3	182.2	178.0	183.9	185.6
82.5°	109.7	106.3	104.6	105.5	109.7
85°	53.1	48.9	48.9	49.8	49.8
87.5°	14.3	12.7	14.3	15.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)